Bill No. 2nd and Part Bill.

Name of work:- CONSTRUCTION OF RAJARAJESHWARI SCHOOL (KALPANA ROAD) BUILDING IN WARD NO.17 J.P.PARK, BANGALORE.

Estimate Cost: - 990.00 lakhs

TS No:- CE/RRN/Ts No.33/2021-22 Date:-27.07.2021.

JOB No:- 017-19-000004 (P-3460).

Wo No:- EE(P)/RRN/WO No/25/2021-22 Date :-12.11.2021.

Name of the Agency: M/S.M.R.INFRA.

MEASUREMENT BOOK No - 02

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EMB NO-02

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward No.17 J.P Park

Estimate Amount:-Rs.990.00 lakhs

Job No.:-017-19-000004 (P-3460)

As No:- EE(P)/RRN/AS No/06/2021-22 Date :-06.11.2021.

Ts No:- CE/RRN/Ts No.33/2021-22 Date:-27.07.2021.

Ag No:-. EE(P)/RRN/AG No/28/2021-22 Date :-12.11.2021.

Wo No:-.EE(P)/RRN/WO No/25/2021-22 Date :-12.11.2021.

Name of Agency:- M/S.M.R.INFRA.

Tendered Amount Rs :-

RA BILL-02nd AND PART

Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
18	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Footing And Column.						
	RCC FOR Footing, Columns & Pedestal						
	For Column.						
	Columns FF FFL To SF FFL						
	Column C1 - [230X600] Grid- F1, H, K1, S1, H A, K1A, S1A, H1, K11, M11, D10, D11)	**Cum**	12	0.23	0.60	3.45	5.71
	Column C2 - [230X600] Grid- B1, D1, H1, N1, R1, F2, R2, A4, A6, A8, H0, K10, M10,J11, L11, S11, E11	**Cum**	18	0.23	0.60	3.45	8.57
	Column C3 - [230X600] Grid- A1, P1, A2, B2, H2, J10,E10, K10, A11, B11, O11	**Cum**	12	0.23	0.60	3.45	5.71
	Column C4- [230X600] Grid- J1, L1, D2, J2, C4, C6, C8, A10,G10,G11	**Cum**	11	0.23	0.60	3.45	5.24
	Column C5 - [230X600] Grid- L2, B10, R11.	**Cum**	3	0.23	0.60	3.45	1.43
	Column C6 - [300X300] Grid- F3, F5, F7, F9, H3, I3, J3, K3, L3, N3, N5, N7, N9, K9, J9, F4, I8, I9, H9.	**Cum**	20	0.13		3.45	8.69
	Column C7 - [450X450] Grid- Q4, Q8, S4,S8	**Cum**	4	0.45	0.45	3.45	2.79
	Column C8 - [230X750] Grid- R10	**Cum**	1	0.75	0.23	3.45	0.60
	Column C9 - [230X450] Grid- N1A, N2, N'1A, N'2	**Cum**	4	0.45	0.23	3.45	1.43
			85	Column FF TO SF TOTAL QTY IN Cum			**40.17**
				Total Qty in Cum			**40.17**
	TENDER QTY **734**	**Cum**		**QTY Paid On This Bill**			**40.17**

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Engineers & Architects

Contractor

Assistant Engineer 28/4

Asst. Executive Engineer 28/4

A.E.E (P) R.R.Nagar

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RA BILL-02nd AND PART

Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
49	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500.						
	Steel FF FFL TO SF FFL Column						
	Columns	**MT**	**1**	**40.17**	**200**		**8034.71**
				TOTAL QTY IN KG			**8034.71**
	TENDER QTY	**37.8**	**MT**	**TOTAL QTY IN MT**			**8.03**

A.E.E (P)
R.R. Naga

ESS ESS BUILDERS
Bengaluru
& Hassan
Reg.No
2555343
Consulting Engineer & Architects

Contractor

Assistant Engineer

Asst. Executive Engineer

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
28	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for Foundation , footing , bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2						
	For Column.						
	Columns FF FFL To SF FFL						
	Column C1 - [230X600] Grid- F1, H, K1, S1, H A, K1A, S1A, H1, K11, M11, D10, D11)	Sqm	12	0.23	0.60	3.45	68.72
	Column C2 - [230X600] Grid- B1, D1, H1, N1, R1, F2, R2, A4, A6, A8, H0, K10, M10,J11, L11, S11, E11	Sqm	18	0.23	0.60	3.45	103.09
	Column C3 - [230X600] Grid- A1, P1, A2, B2, H2, J10,E10, K10, A11, B11, O11	Sqm	12	0.23	0.60	3.45	68.72
	Column C4- [230X600] Grid- J1, L1, D2, J2, C4, C6, C8, A10,G10,G11	Sqm	11	0.23	0.60	3.45	63.00
	Column C5 - [230X600] Grid- L2, B10, R11	Sqm	3	0.23	0.60	3.45	17.18
	Column C6 - [300X300] Grid- F3, F5, F7, F9, H3, I3, J3, K3, L3, N3, N5, N7, N9, K9, J9, I4, I8, I9, H9 Circular Columns	Sqm	20	1.26		3.45	86.94
	Column C7 - [450X450] Grid- Q4, Q8, S4,S8	Sqm	4	0.45	0.45	3.45	24.84
	Column C8 - [230X750] Grid- R10	Sqm	1	0.75	0.23	3.45	6.76
	Column C9 - [230X450] Grid- N1A, N2, N'1A, N'2	Sqm	4	0.45	0.23	3.45	18.77
			85	TOTAL QTY IN Sqm			458.02
				QTY Paid On This Bill			458.02
	TENDER QTY	458.02	Sqm				

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Consulting Engineer & Architects

Contractor

Assistant Engineer

Asst. Executive Engineer

A.E.E (P) R.R. Nagar

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
14	Providing & laying IN POSITION REINFORCED CEMENT CONCRETE of design mix M25 with OPC cement @ 340 Kgs with down size graded grinite metel coarse aggregates @ 0.70 Cum & fine aggregates @ 0.47 Cum with super plastisiser @ 3.0 Ltrs confirming to IS 9103-1999, re affirmed - 2008, Maichine mixed, concrete laid in layers not exeeeding 15cms thick, vibrated for all works in foundation ,Plinth,& Ground floor Level for Roof Slab, **Staircase, Lintels,** Retaining Wall, Pires, Abutments, Pillers, Posts, Struts, Butteress, String or Lasing Corsess, Prapeets Copings, Bed Blocks, anchor blocks, plain windows cills, filliets, etc including cost of all materials, laobur HOM of machinary, curing complete as per specification. Ground floor							
	FF Lintel Beam Concrete						
	Lintel Beam L1 : (230x200) Grid A1 to S1 & A11 TO S11	Cum	2	47.88	0.230	0.200	4.40
	Lintel Beam L2 : (230x200) Grid A2 TO S2 & A10 TO S10	Cum	2	47.88	0.230	0.200	4.40
	Lintel Beam L3 : (230x200) Grid A1 TO A11 & S1 TO S11	Cum	2	29.60	0.230	0.200	2.72
	Lintel Beam L4 : (230x300) Grid C2 to C10 & Q2 to Q10	Cum	2	15.46	0.230	0.300	2.13
	Lintel Beam L4 : (230x300) Grid Class Room Partion Wall	Cum	11	6.40	0.230	0.300	4.86
	Lintel Beam L5 : (115x150)	Cum	5	1.20	0.115	0.150	0.10
	Lintel Beam L6 : (115x150)	Cum	2	1.80	0.115	0.150	0.06
	FF to SF Stair Case 2 Nos						
	Waist Slab FF TO Landing	Cum	2	3.58	2	0.21	1.50
	Landing	Cum	2	4.30	1.13	0.17	1.46
	Waist Slab Landing to SF	Cum	2	3.58	2	0.21	1.50
	Landing @ SF	Cum	2	4.30	1.1	0.15	1.29
	Supporting Beam (230x450)	Cum	2	4.30	0.23	0.24	2.06
	Supporting Beam At Mid Landing Level Grid- E11 TO E10 & G11 TO G10	Cum	2	6.03	0.23	0.45	5.43
	Steps	Cum	46	0.02	2.01		2.03
				TOTAL QTY IN Cum			33.97
				QTY Paid On This Bill			33.97
	TENDER QTY 33.97	Cum				Up to 125%	33.38
						Above 125%	0.59

ESS ESS BUILDCON Bengaluru & Hassan Reg.No 2555343 Consulting Engineer & Architects

Contractor

Assistant Engineer

A.E.E (P) R.R.Nagar

Asst. Executive Engineer

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RA BILL-02nd AND PART

Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
41	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 250 kgs with 12mm & down sizes graded granite metal coarse aggregates @ 0.596 cum & fine aggregates @ 0.341 Cum with super super plastisiser @ 0.225 Ltrs machine mixed well compacted plain chajja 7.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification Ground floor						
	FF Chejja Concrete						
	b/w A1 & S1	Sqm	3	4.60	0.600		8.44
		Sqm	1	2.50	0.600		1.50
		Sqm	1	2.30	0.600		1.38
		Sqm	1	7.00	0.600		4.20
		Sqm	1	2.30	0.600		1.38
	b/w S1 & S11	Sqm	1	2.23	0.600		1.34
		Sqm	1	2.20	0.600		1.32
		Sqm	1	4.23	0.600		2.54
		Sqm	1	2.00	0.600		1.20
		Sqm	1	1.20	0.600		0.72
	b/w S11 & A11	Sqm	3	4.23	0.600		7.61
		Sqm	4	2.23	0.600		5.35
	b/w A11 & A1	Sqm	3	4.50	0.600		8.10
		Sqm	4	2.30	0.600		5.52
					TOTAL QTY IN Sqm		50.60
	TENDER QTY	48	Sqm		QTY Paid On This Bill		50.60
					Qty Remained bcoz of approval		0.60
					Qty paid on this Bill		48.00

A.E.E
R.R. Nagar

ESS ESS BUILDERS & Consulting Engineer & Architects
Bengaluru & Hassan
Reg.No 2555343

Contractor

B. L. Ramakrishna
Assistant Engineer

B. L. Ramakrishna
Asst. Executive Engineer

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
19	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Graded Beam						
	FF ROOF BEAM						
	2B1(230X450) @ Grid at B1	CUM	1	3.63	0.230	0.450	0.38
	2B1(230X450)@ Grid at F1	CUM	1	3.50	0.230	0.450	0.36
	2B1 (230X450)@ Grid at H1	CUM	1	3.50	0.230	0.450	0.36
	2B1 (230X450)@ Grid at K1	CUM	1	3.39	0.230	0.450	0.35
	2B1 (230X450)@ Grid at B11 & R11	CUM	2	4.13	0.230	0.450	0.85
	2B2(230X450)= Grid- A1 To S1	CUM	1	47.88	0.230	0.450	4.96
	2B3(230X450)= GRID B/W 1B35 & 1B36	CUM	2	1.39	0.230	0.450	0.29
	2B4(230X450)= GRID B/W 2B36 & 2B37	CUM	1	2.85	0.230	0.450	0.29
	2B5(230X450)= GRID N1A TO N'1A	CUM	1	2.05	0.230	0.450	0.21
	2B6(230X450)= B/W L1A, L2 TO N1A, N2	CUM	2	4.30	0.230	0.450	0.89
	2B7(230X450)= G-A2 To S2	CUM	1	47.88	0.230	0.450	4.96
	2B8(230X450)= G-E3 To N3, E9 To N9	CUM	2	25.28	0.230	0.450	5.23
	2B9(230X600)= A4 To C4 & A8 To C8	CUM	2	6.40	0.230	0.600	1.77
	C4 TO E4 & C8 To E8	CUM	2	5.60	0.230	0.450	1.16
	2B10(230X600)= A6 To C6	CUM	1	6.40	0.230	0.600	0.88
	2B11 (230X600)= N4 TO Q4 & N7 TO Q7	CUM	2	4.62	0.230	0.450	0.96
	Q4 TO T4 & Q8 TO T8		2	6.14	0.230	0.600	1.69
	2B12(300X600)= Q6 TO T6	CUM	1	13.75	0.300	0.600	2.48
	2B13(230X600)= GRID A10 TO S10	CUM	1	47.88	0.230	0.600	6.61
	2B14(230X450)= GRID B/W E10 E11 & G10 G11	CUM	2	4.30	0.230	0.450	0.89
	2B15(230X450)= GRID B/W 2B39, 2B41	CUM	1	5.01	0.230	0.450	0.82
	2B16(230X450)= GRID B/W 1B41 1B2	CUM	2	1.14	0.230	0.450	0.23
	2B17(230X0.45)= B/W 2B38, 2B41	CUM	1	6.73	0.230	0.450	0.70
	2B18(230X450) GRID B/W 2B40, 2B41	CUM	1	2.77	0.230	0.450	0.29
	2B19(230X450)= A11 TO S11	CUM	1	47.88	0.230	0.450	4.96
	2B20(230X450)= AT B11	CUM	1	4.13	0.230	0.450	0.43
	AT R11	CUM	1	4.13	0.230	0.450	0.43
	2B21(230X450)= AT B1, F1, H1, K1, A2, A4, A8, A10, B11, R11	CUM	20	0.37	0.230	0.450	0.77
			4	0.60	0.230	0.450	0.25
	2B22(230X450)= AT A2 AND A10	CUM	2	1.50	0.230	0.450	0.31

A.E.E(P)
R.R.Nagi

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	2B22A (230X450)= AT A4 AND A8	CUM	2	3.50	0.230	0.450	0.72
	2B23(230X600)= A1 TO A11	CUM	1	29.69	0.230	0.600	4.10
	2B24(230X600)= B10 TO B11, M10 TO M11	CUM	2	6.40	0.230	0.600	1.77
	2B25(230X600)= GRID B1 TO B2	CUM	2	6.40	0.230	0.600	1.77
	2B26(230X450)= GRID C3 TO C10	CUM	1	15.46	0.230	0.450	1.60
	2B27(230X600)= D10 TO D11, J10 TO J11, L10 TO L11	CUM	3	6.40	0.230	0.600	2.65
	2B28(230X600)= D1 TO D2, H1 TO H2, J1 TO J2	CUM	3	6.40	0.230	0.600	2.65
	2B29(230X600)= GRID E2 TO E11	CUM	1	21.98	0.230	0.600	3.03
	2B30(230X600)= G10 TO G11	CUM	1	6.40	0.230	0.600	0.88
	2B31(230X600)= I10 TO I11	CUM	2	6.40	0.230	0.600	1.77
	2B32(230X600)= I1 TO I3 , K1 TO K3	CUM	2	6.40	0.230	0.600	1.77
		CUM	2	2.00	0.230	0.600	0.55
	2B33(230X600)= L1 TO L2	CUM	1	6.40	0.230	0.600	0.88
	2B34(230X450)= P1 TO P2	CUM	1	22.09	0.230	0.450	2.29
	2B35(150X450)= GRID N'1 TO N'2	CUM	1	6.40	0.230	0.450	0.66
	2B36(230X600) = P1 TO P2	CUM	1	6.40	0.230	0.600	0.88
	2B36A (230X450) = B/W Q1 R1	CUM	1	2.00	0.230	0.450	0.21
	2B37(230X600)=R1 TO R11	CUM	1	6.40	0.230	0.600	0.88
	2B38(230X600)= GRID- O10 TO O11	CUM	1	6.40	0.230	0.600	0.88
	2B39(230X750)= Q2 TO Q10	CUM	1	7.49	0.300	0.750	1.68
			2	3.65	0.230	0.450	0.76
	2B40(150X600)= GRID R10 TO R11	CUM	1	6.40	0.230	0.600	0.88
	2B41(230X600)= GRID B/W R10 S10 TO R11 S11	CUM	1	6.40	0.230	0.600	0.88
	2B42(230X600)= GRID S1 TO S4, S8 TO S11	CUM	1	21.15	0.230	0.600	2.92
	2B42(230X750)= GRID S4 TO S8	CUM	1	7.49	0.300	0.750	1.68
	2B43(230X0.45)= GRID AT S4/S8	CUM	2	1.50	0.230	0.450	0.31
	2B44(230X600)= T4 TO T8	CUM	1	7.30	0.230	0.600	1.01
				GF Roof Beam Total Qty in Cum			84.501
				TOTAL QTY IN Cum			84.50
	TENDER QTY 428.6	CUM		QTY Paid On This Bill			84.50

A.E.E (P) R.R.Nagar

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Consulting Engineer & Architects

Contractor

Assistant Engineer 28/4

Asst. Executive Engineer 28/4

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
23	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam haunching cantilever girders, bressumers & lintels & not exceeding 1.0 m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Ground floor						
	FF Lintel Beam Shuttering						
	Lintel Beam L1 : (230x200) Grid A1 to S1 & A11 TO S11	Sqm	2	47.88	0.230	0.200	82.35
	Lintel Beam L2 : (230x200) Grid A2 TO S2 & A10 TO S10	Sqm	2	47.88	0.230	0.200	82.35
	Lintel Beam L3 : (230x200) Grid A1 TO A11 & S1 TO S11	Sqm	2	22.69	0.230	0.200	39.03
	Lintel Beam L4 : (230x300) Grid C2 to C10 & Q2 to Q10	Sqm	2	15.46	0.230	0.300	32.78
	Lintel Beam L5 : (115x150)	Sqm	5	1.20	0.115	0.150	3.18
	Lintel Beam L6 : (115x150)	Sqm	2	1.80	0.115	0.150	1.91
	FF ROOF BEAM						
	2B1(230X450) @ Grid at B1	Sqm	1	3.63	0.230	0.300	3.85
	2B1(230X450)@ Grid at F1	Sqm	1	3.50	0.230	0.300	3.71
	2B1 (230X450)@ Grid at J1	Sqm	1	3.50	0.230	0.300	3.71
	2B1 (230X450)@ Grid at K1	Sqm	1	3.39	0.230	0.300	3.59
	2B1 (230X450)@ Grid at B11 & R11	Sqm	2	4.13	0.230	0.300	8.76
	2B2(230X450)= Grid- A1 To S1	Sqm	1	47.88	0.230	0.300	50.75
	2B3(230X450)= GRID B/W 1B35 & 1B36	Sqm	2	1.39	0.230	0.300	2.94
	2B4(230X450)= GRID B/W 1B36 & 1B37	Sqm	1	2.85	0.230	0.300	3.02
	2B5(230X450)= GRID N1A TO N'1A	Sqm	1	2.05	0.230	0.300	2.17
	2B6(230X450)= B/W L1A, L2 TO N1A, N2	Sqm	2	4.30	0.230	0.300	9.12
	2B7(230X450)= G-A2 To S2	Sqm	1	47.88	0.230	0.300	50.75
	2B8(230X450)= G-E3 To N3, E9 To N9	Sqm	2	25.28	0.230	0.300	53.58
	2B9(230X600)= A4 To C4 & A8 To C8	Sqm	2	6.40	0.230	0.450	17.41
	C4 TO E4 & C8 To E8	Sqm	2	5.60	0.230	0.300	11.86
	2B10(230X600)= A6 To C6	Sqm	1	6.40	0.230	0.450	8.70
	2B11 (230X600)= N4 TO Q4 & N7 TO Q7	Sqm	2	4.62	0.230	0.300	9.78
	Q4 TO T4 & Q8 TO T8	Sqm	2	6.14	0.230	0.450	16.70
		Sqm	2	7.01	0.300	0.450	21.03
	2B12(300X600)= Q6 TO T6	Sqm	1	13.75	0.300	0.450	20.63
	2B13(230X600)= GRID A10 TO S10	Sqm	1	47.88	0.230	0.450	65.11

A.E.E (P)
R.R.Nagar

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	2B14(230X450)= GRID B/W E10 E11 & G10 G11	Sqm	2	4.30	0.230	0.300	9.12
	2B15(230X450)= GRID B/W 1B39, 1B41	Sqm	1	5.01	0.230	0.300	5.31
	2B16(230X450)= GRID B/W 1B41 1B2	Sqm	2	1.14	0.230	0.300	2.41
	2B17(230X0.45)= B/W 1B38, 1B41	Sqm	1	6.73	0.230	0.300	7.13
	2B18(230X450) GRID B/W 1B40, 1B41	Sqm	1	2.77	0.230	0.300	2.93
	2B19(230X450)= A11 TO S11	Sqm	1	47.88	0.230	0.300	50.75
	2B20(230X450)= AT B11	Sqm	1	4.13	0.230	0.300	4.38
	AT R11	Sqm	1	4.13	0.230	0.300	4.38
	2B21(230X450)= AT B1, F1, I1, K1, A2, A4, A8, A10, B11, R11	Sqm	20	0.37	0.230	0.300	7.84
		Sqm	4	0.60	0.230	0.300	2.54
	2B22(230X450)= AT A2 AND A10	Sqm	2	1.50	0.230	0.300	3.18
	2B22A (230X450)= AT A4 AND A8	Sqm	2	3.50	0.230	0.300	7.42
	2B23(230X600)= A1 TO A11	Sqm	1	29.69	0.230	0.450	40.38
	2B24(230X600)= B10 TO B11, M10 TO M11	Sqm	2	6.40	0.230	0.450	17.41
	2B25(230X600)= GRID B1 TO B2	Sqm	2	6.40	0.230	0.450	17.41
	2B26(230X450)= GRID C3 TO C10	Sqm	1	15.46	0.230	0.300	16.39
	2B27(230X600)= D10 TO D11, J10 TO J11, L10 TO L11	Sqm	3	6.40	0.230	0.450	26.11
	2B28(230X600)= D1 TO D2, H1 TO H2, J1 TO J2	Sqm	3	6.40	0.230	0.450	26.11
	2B29(230X600)= GRID E2 TO E11	Sqm	1	21.98	0.230	0.450	29.89
	2B30(230X600)= G10 TO G11	Sqm	1	6.40	0.230	0.450	8.70
	2B31(230X600)= I10 TO I11	Sqm	2	6.40	0.230	0.450	17.41
	2B32(230X600)= I1 TO I3 , K1 TO K3	Sqm	2	6.40	0.230	0.450	17.41
		Sqm	2	2.00	0.230	0.450	5.44
	2B33(230X600)= L1 TO L2	Sqm	1	6.40	0.230	0.450	8.70
	2B34(230X450)= P1 TO P2	Sqm	1	22.09	0.230	0.300	23.42
	2B35(150X450)= GRID N'1 TO N'2	Sqm	1	6.40	0.230	0.300	6.78
	2B36(230X600) = P1 TO P2	Sqm	1	6.40	0.230	0.450	8.70
	2B36A (230X450) = B/W Q1 R1	Sqm	1	2.00	0.230	0.300	2.12
	2B37(230X600)=R1 TO R11	Sqm	1	6.40	0.230	0.450	8.70
	2B38(230X600)= GRID- O10 TO O11	Sqm	1	6.40	0.230	0.450	8.70
	2B39(230X450)= Q2 TO Q10	Sqm	1	7.49	0.300	0.600	13.47
		Sqm	2	3.65	0.230	0.300	7.74
	2B40(150X600)= GRID R10 TO R11	Sqm	1	6.40	0.230	0.450	8.70

A.E.E (P)
R.R. Nagar

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RA BILL-02nd AND PART								
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	2B41(230X600)= GRID B/W R10 S10 TO R11 S11	Sqm	1	6.40	0.230	0.450	8.70
	2B42(230X600)= GRID S1 TO S4, S8 TO S11	Sqm	1	21.15	0.230	0.450	28.76
	2B42(230X750)= GRID S4 TO S8	Sqm	1	7.49	0.300	0.600	13.47
	2B43(230X0.45)= GRID AT S4	Sqm	2	1.50	0.230	0.300	3.18
	2B44(230X600)= T4 TO T8	Sqm	1	7.30	0.230	0.450	9.93
				TOTAL QTY IN Sqm			1099.87
				QTY Paid On This Bill			1099.87
	TENDER QTY 1116.8	Sqm					

A.E.E (P)
R.R. Nagar

ESS ESS BUILDCON
Bengaluru & Hassan
Reg.No
2555343
Consulting Engineer & Architects

Contractor

Assistant Engineer

Asst. Executive Engineer

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
45	Providing and removing centering, shuttering, strutting, propping etc. for chajjas, corbels of all shapes & sizes, at all elevations & heights Ground floor						
	FF Chejja Shuttering						
	b/w A1 & S1	Sqm	3	4.69	0.600		8.44
		Sqm	1	2.50	0.600		1.50
		Sqm	1	2.30	0.600		1.38
		Sqm	1	7.00	0.600		4.20
		Sqm	1	2.30	0.600		1.38
	b/w S1 & S11	Sqm	1	2.23	0.600		1.34
		Sqm	1	2.20	0.600		1.32
		Sqm	1	4.23	0.600		2.54
		Sqm	1	2.00	0.600		1.20
		Sqm	1	1.20	0.600		0.72
	b/w S11 & A11	Sqm	3	4.23	0.600		7.61
		Sqm	4	2.23	0.600		5.35
	b/w A11 & A1	Sqm	3	4.50	0.600		8.10
		Sqm	4	2.30	0.600		5.52
	TOTAL QTY IN Sqm						50.60
	TENDER QTY	195	Sqm		QTY Paid On This Bill		50.60

Chd Engg
A.E.E.
R.R. Nagar

M/S ESS BUILDERS
Bengaluru
Reg.No
2555343
Building Engineer & Architects

Contractor

B.K. Ramakrishna
Assistant Engineer

B.K. Ramakrishna
Asst. Executive Engineer

Scanned by TapScanner

RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
20	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Roof Slab.						
	FF ROOF SLAB Concrete						
	GRID= A1 A2 TO N1 N2	CUM	1	36.28	6.746	0.15	36.71
	DEDUCTION STAIR CASE AREA	CUM	-1	4.30	5.15	0.15	-3.32
	RACK	CUM	1	3.63	0.6	0.15	0.33
	RACK	CUM	2	3.50	0.6	0.15	0.63
	RACK	CUM	1	3.39	0.6	0.15	0.31
	GRID= E2 E3 TO N2 N3 & E9 E10 TO N9 N10	CUM	2	25.05	2.23	0.15	16.76
	GRID= A2 E2 TO A10 E10	CUM	1	15.46	11.465	0.15	26.59
	RACK	CUM	1	3.13	0.6	0.15	0.28
	RACK		1	3.50	0.6	0.15	0.32
	GRID= A10 A11 TO S10 S11	CUM	1	47.88	6.63	0.15	47.61
	RACK	CUM	2	4.13	0.6	0.15	0.74
	STAIR CASE AREA DEDUCTION	CUM	-1	4.30	5.15	0.15	-3.32
	GRID= N1 S1 TO N10 S10	CUM	1	11.48	22.207	0.15	38.24
	RACK	CUM	2	1.65	0.6	0.15	0.30
	Slab Projection A11 TO S11	CUM	1	2.88	0.6	0.15	0.26
		CUM	1	3.83	0.6	0.15	0.34
		CUM	1	3.70	0.6	0.15	0.33
		CUM	1	3.05	0.6	0.15	0.27
		CUM	2	4.30	0.6	0.15	0.77
				FF Roof Slab Total Qty			164.15
	Deduction for FF ROOF BEAM Slab Thickness						
	2B1(230X450) @ Grid at B1	CUM	-1	3.63	0.230	0.150	-0.13
	2B1(230X450)@ Grid at F1	CUM	-1	3.50	0.230	0.150	-0.12
	2B1 (230X450)@ Grid at I1	CUM	-1	3.50	0.230	0.150	-0.12
	2B1 (230X450)@ Grid at K1	CUM	-1	3.39	0.230	0.150	-0.12
	2B1 (230X450)@ Grid at B11 & R11	CUM	-2	4.13	0.230	0.150	-0.28
	2B2(230X450)= Grid- A1 To S1	CUM	-1	47.88	0.230	0.150	-1.65
	2B3(230X450)= GRID B/W 1B35 & 1B36	CUM	-2	1.39	0.230	0.150	-0.10
	2B4(230X450)= GRID B/W 2B36 & 2B37	CUM	-1	2.85	0.230	0.150	-0.10
	2B5(230X450)= GRID N1A TO N'1A	CUM	-1	2.05	0.230	0.150	-0.07
	2B6(230X450)= B/W L1A, L2 TO N1A, N2	CUM	-2	4.30	0.230	0.150	-0.30
	2B7(230X450)= G-A2 To S2	CUM	-1	47.88	0.230	0.150	-1.65
	2B8(230X450)= G-E3 To N3, E9 To N9	CUM	-2	25.28	0.230	0.150	-1.74
	2B9(230X600)= A4 To C4 & A8 To C8	CUM	-2	6.40	0.230	0.150	-0.44

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RA BILL 02nd AND PART

Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	C4 TO I4 & C8 To E8	CUM	2	5.60	0.230	0.150	0.39
	2B10(230X600) A6 To C6	CUM	-1	6.40	0.230	0.150	0.22
	2B11 (230X600) N4 TO Q4 & N7 TO Q7	CUM	-2	4.62	0.230	0.150	0.32
	Q4 TO I4 & Q8 TO I8		-2	6.14	0.230	0.150	0.42
	2B12(300X600) Q6 TO I6	CUM	-1	13.75	0.300	0.150	0.62
	2B13(230X600) GRID A10 TO S10	CUM	-1	47.88	0.230	0.150	1.65
	2B14(230X450) GRID B/W E10 E11 & G10 G11	CUM	-2	4.30	0.230	0.150	0.30
	2B15(230X450) GRID B/W 2B39, 2B41	CUM	-1	5.01	0.230	0.150	0.17
	2B16(230X450) GRID B/W 1B41 1B2	CUM	-2	1.14	0.230	0.150	0.08
	2B17(230X0.45) B/W 2B38, 2B41	CUM	-1	6.73	0.230	0.150	0.23
	2B18(230X450) GRID B/W 2B40, 2B41	CUM	-1	2.77	0.230	0.150	0.10
	2B19(230X450)= A11 TO S11	CUM	-1	47.88	0.230	0.150	1.65
	2B20(230X450)= A1 B11	CUM	-1	4.13	0.230	0.150	0.14
	A1 R11	CUM	-1	4.13	0.230	0.150	0.14
	2B21(230X450)= A1 B1, F1, I1, K1, A2, A4, A8, A10, B11, R11	CUM	-20	0.37	0.230	0.150	0.25
			-4	0.60	0.230	0.150	0.08
	2B22(230X450)= A1 A2 AND A10	CUM	-2	1.50	0.230	0.150	0.10
	2B22A (230X450)= A1 A4 AND A8	CUM	-2	3.50	0.230	0.150	0.24
	2B23(230X600)= A1 TO A11	CUM	-1	29.69	0.230	0.150	1.02
	2B24(230X600)= B10 TO B11, M10 TO M11	CUM	-2	6.40	0.230	0.150	0.44
	2B25(230X600)= GRID B1 TO B2	CUM	-2	6.40	0.230	0.150	0.44
	2B26(230X450)= GRID C3 TO C10	CUM	-1	15.46	0.230	0.150	0.33
	2B27(230X600) D10 TO D11, J10 TO J11,	CUM	-3	6.40	0.230	0.150	0.66
	2B28(230X600)= D1 TO D2, I11 TO I12, J1	CUM	-3	6.40	0.230	0.150	0.66
	2B29(230X600) GRID E2 TO E11	CUM	-1	21.98	0.230	0.150	0.76
	2B30(230X600)= G10 TO G11	CUM	-1	6.40	0.230	0.150	0.22
	2B31(230X600)= I10 TO I11	CUM	-2	6.40	0.230	0.150	0.44
	2B32(230X600)= I1 TO I3 , K1 TO K3	CUM	-2	6.40	0.230	0.150	0.44
		CUM	-2	2.00	0.230	0.150	0.14
	2B33(230X600)= L1 TO L2	CUM	-1	6.40	0.230	0.150	0.22
	2B34(230X450)= P1 TO P2	CUM	-1	22.09	0.230	0.150	0.76
	2B35(150X450)= GRID N'1 TO N'2	CUM	-1	6.40	0.230	0.150	0.22
	2B36(230X600) = P1 TO P2	CUM	-1	6.40	0.230	0.150	0.22
	2B36A (230X450) = B/W Q1 R1	CUM	-1	2.00	0.230	0.150	0.07
	2B37(230X600)=R1 TO R11	CUM	-1	6.40	0.230	0.150	0.22
	2B38(230X600)= GRID- O10 TO O11	CUM	-1	6.40	0.230	0.150	0.22
	2B39(230X750)= Q2 TO Q10	CUM	-1	7.49	0.300	0.150	0.34
			-2	3.65	0.230	0.150	0.25
	2B40(150X600)= GRID R10 TO R11	CUM	-1	6.40	0.230	0.150	0.22

E.E (P) R.R.N

A.E.E (P) R.R.Nagar

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Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	RA BILL-02nd AND PART						
	2B41(230X600)= GRID B/W R10 S10 TO R11 S11	CUM	-1	6.40	0.230	0.150	-0.22
	2B42(230X600)= GRID S1 TO S4, S8 TO S11	CUM	-1	21.15	0.230	0.150	-0.73
	2B42(230X750)= GRID S4 TO S8	CUM	-1	7.49	0.300	0.150	-0.34
	2B43(230X0.45)= GRID AT S4/S8	CUM	-2	1.50	0.230	0.150	-0.10
	2B44(230X600)= T4 TO T8	CUM	-1	7.30	0.230	0.150	-0.25
				TOTAL QTY IN Cum			140.06
	TENDER QTY 682.8	CUM		QTY Paid On This Bill			140.06

ESS ESS BUILDERS • Bengaluru & Hassan • Reg No [illegible] • Consulting Engineers

Contractor

Assistant Engineer

Asst. Executive Engineer

A.E.E (PT) RT Nagar

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
33	Providing and removing centering, shuttering, strutting, propping etc , and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications Specification upto 3.5 m from Ground level						
	FF ROOF SLAB Shuttering						
	GRID= A1 A2 TO N1 N2	Sqm	1	36.28	6.746		244.74
	DEDUCTION STAIR CASE AREA	Sqm	-1	4.30	5.15		-22.15
	RACK	Sqm	1	3.63	0.6		2.18
	RACK	Sqm	2	3.50	0.6		4.20
	RACK	Sqm	1	3.39	0.6		2.03
	GRID= E2 E3 TO N2 N3 & E9 E10 TO N9 N10	Sqm	2	25.05	2.23		111.70
	GRID= A2 E2 TO A10 E10	Sqm	1	15.46	11.465		177.25
	RACK	Sqm	1	3.13	0.6		1.88
	RACK		1	3.50	0.6		2.10
	GRID= A10 A11 TO S10 S11	Sqm	1	47.88	6.63		317.41
	RACK	Sqm	2	4.13	0.6		4.96
	STAIR CASE AREA DEDUCTION	Sqm	-1	4.30	5.15		-22.15
	GRID= N1 S1 TO N10 S10	Sqm	1	11.48	22.207		254.94
	RACK	Sqm	2	1.65	0.6		1.98
	GRID= S4 T4 TO S8 T8	Sqm	1	7.61	7.946		60.47
	Slab Projection A11 TO S11	Sqm	1	2.88	0.6		1.73
		Sqm	1	3.83	0.6		2.30
		Sqm	1	3.70	0.6		2.22
		Sqm	1	3.05	0.6		1.83
		Sqm	2	4.30	0.6		5.16
				TOTAL QTY IN Sqm			1154.78
	TENDER QTY 1154.78	Sqm		QTY Paid On This Bill			1154.78

E.E (P) R.R.N

A.E.E (P) R.R. Nagar

Contractor

Assistant Engineer

Asst. Executive Engineer

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RA BILL-02nd AND PART

Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
37	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications.						
	FF ROOF SLAB Edges						
	Slab Edges Out Side	Sqm	1	169.38		0.15	25.41
	Slab Edges Inside	Sqm	1	72.36		0.15	10.85
	Slab Edges Inside Stair Case Area	Sqm	2	19.66		0.15	5.90
	Slab Projection A11 TO S11	CUM	2		0.6	0.15	0.18
		CUM	2		0.6	0.15	0.18
		CUM	2		0.6	0.15	0.18
		CUM	2		0.6	0.15	0.18
	FF Chejja Edges						
	b/w A1 & S1	Sqm	3	4.69	0.600	0.085	1.50
		Sqm	1	2.50	0.600	0.085	0.31
		Sqm	1	2.30	0.600	0.085	0.30
		Sqm	1	7.00	0.600	0.085	0.70
		Sqm	1	2.30	0.600	0.085	0.30
	b/w S1 & S11	Sqm	2	3.66	0.600	0.085	0.83
		Sqm	1	0.75	0.600	0.085	0.17
		Sqm	1	0.75	0.600	0.085	0.17
	b/w S11 & A11	Sqm	3	4.23	0.600	0.085	1.38
		Sqm	4	2.23	0.600	0.085	1.17
	b/w A11 & A1	Sqm	1	5.06	0.600	0.085	0.53
		Sqm	2	2.30	0.600	0.085	0.60
		Sqm	2	2.46	0.600	0.085	0.62
				TOTAL QTY IN Sqm			51.45
	TENDER QTY 182.8	Sqm		QTY Paid On This Bill			51.45

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Consulting Engineer & Architects

Contractor

B.K. Ramesh Kumar
Assistant Engineer

B.K. Ramesh Kumar
Asst. Executive Engineer

A.E.E (P) R.R. Nagar

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
39	Providing and removing centring, shuttering, strutting, proping etc., and removal of form work for stairs (excluding landing) except spiral staircase including cost of all materials,labour complete as per specification and directed by the Engineer in Charge. Ground floor						
	FF to SF Stair Case Shuttering						
	FF to SF Stair Case 2 Nos						
	Waist Slab FF TO Landing	Sqm	2	3.58	2		14.32
	Landing	Sqm	2	4.30	1.13		9.72
	Waist Slab Landing to SF	Sqm	2	3.58	2		14.32
	Landing @ SF	Sqm	2	4.30	1.1		9.46
	Supporting Beam (230x450)	Sqm	2	4.30	0.23	0.45	9.72
	Supporting Beam At Mid Landing Level	Sqm	2	6.03	0.23	0.45	13.63
	Steps	Sqm	46	0.15	2		13.80
				TOTAL QTY IN Sqm			84.96
	TENDER QTY 214	Sqm		QTY Paid On This Bill			84.96

Contractor

Assistant Engineer

Asst. Executive Engineer

A.E.E (P)
R.R. Naga

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RA BILL-02nd AND PART								
Item No	Description		Units	Nos	Measurements in Mtrs			Quantity
					Length	Breadth	Depth	
49	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No KBS 4 6 1 FOR TMT Bars Fe 500							
	Steel UP To SF FFL							
	Lintel & Stair Case		MT	1	33 97	150		5095 98
	Roof Beam		MT	1	84 50	200		16900 24
	Roof Slab		MT	1	140 06	65		9103 90
					TOTAL QTY IN KG			31100 12
					TOTAL QTY IN MT. FF FFL to SF FFL			11 10
	Carry the Qty Recorded on Page No 2				TOTAL QTY IN MT			8 03
					TOTAL QTY IN MT			39 13
					QTY Paid On This Bill			39 13
	TENDER QTY	39 13	MT					

Contractor

Assistant Engineer

Asst. Executive Engineer

A.E.E (P)
R.R.Nagar

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
55	Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 Ground floor						
	FF BBM						
	Class Room-13 & 14 Grid at Q6 B/W S6						
	HORIZONTAL WALL (HW1)	CUM	1.00	6.40	0.23	2.85	4.20
	HORIZONTAL WALL (HW2)	CUM	1.00	6.17	0.23	3.00	4.26
	HORIZONTAL WALL (HW3)	CUM	1.00	7.01	0.23	3.00	4.84
	VERTICAL WALL(VW1) G- Q2 TO Q10	CUM	1.00	14.79	0.23	3.00	10.21
	VERTICAL WALL(VW2) G- S2 TO S10	CUM	1.00	16.71	0.23	3.00	11.53
	DEDUCTION						
	DOOR	CUM	-2.00	1.50	0.23	2.40	-1.66
	V	CUM	-2.00	1.20	0.23	1.00	-0.55
	W	CUM	-4.00	2.00	0.23	1.50	-2.76
	GIRLS AND BOYS TOILET GRID @ S11 & R10						
	HV1	CUM	1.00	9.33	0.23	3.00	6.44
	HV2	CUM	1.00	11.53	0.23	3.00	7.95
	VW1	CUM	1.00	6.40	0.23	2.85	4.20
	VW2	CUM	1.00	3.09	0.23	3.00	2.13
	DEDUCTION						
	D2	CUM	-2.00	1.00	0.23	2.10	-0.97
	W	CUM	-2.00	2.00	0.23	1.50	-1.38
	W2	CUM	-1.00	1.20	0.23	1.50	-0.41
	V2	CUM	-2.00	0.70	0.23	0.60	-0.19
	Staff Room S1 P1 TO S2 R2						
	HW	CUM	2.00	7.01	0.23	3.00	9.67
	VW	CUM	2.00	6.40	0.23	2.85	8.39
	DEDUCTION						
	D1	CUM	-1.00	1.50	0.23	2.40	-0.83
	W	CUM	-2.00	2.00	0.23	1.50	-1.38
	V2	CUM	-1.00	0.75	0.23	0.60	-0.10
	STAFF TOILET @ N1P1 TO N1A, N'1A						
	HW	CUM	1.00	3.67	0.23	3.00	2.53
	VW1	CUM	1.00	4.37	0.23	3.00	3.02
	VW2	CUM	1.00	1.74	0.23	3.00	1.20
	DEDUCTION						
	D2	CUM	-1.00	1.00	0.23	2.10	-0.48

A.E.E (P)
P.R. Nagar

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	N1	CUM	-1.00	1.00	0.23	0.60	-0.14
	STAIR CASE @ L1 N1 & E11 G11						
	HW	CUM	2.00	4.30	0.23	3.00	5.93
	DEDUCTION						
	SW	CUM	-2.00	2.00	0.23	1.00	-0.92
	CLASS ROOM-07						
	HW	CUM	1.00	7.70	0.23	3.00	5.31
	HW2	CUM	1.00	8.44	0.23	3.00	5.82
	CLASS ROOM-08						
	HW1	CUM	1.00	7.50	0.23	3.00	5.18
	HW2	CUM	1.00	8.24	0.23	3.00	5.69
	VH	CUM	3.00	6.03	0.23	2.85	11.86
	DEDUCTION						
	D1	CUM	-2.00	1.50	0.23	2.40	-1.66
	W	CUM	-4.00	2.00	0.23	1.50	-2.76
	V	CUM	-2.00	1.20	0.23	1.00	-0.55
	KITCHEN AND DINING HALL						
	HW1	CUM	1.00	15.86	0.23	3.00	10.94
	HW2	CUM	1	17.34	0.23	3	11.96
	HW STORE	CUM	1	1.50	0.23	3.3	1.14
	VW	CUM	1	6.40	0.23	3.3	4.86
	VW	CUM	1	6.40	0.23	2.85	4.20
	DUCT	CUM	1	2.40	0.23	3	1.66
	DEDUCTION						
	D1	CUM	-1	1.50	0.23	2.4	-0.83
	W	CUM	-5	2.00	0.23	1.5	-3.45
	D2	CUM	-1	1.00	0.23	2.1	-0.48
	V2	CUM	-1	0.75	0.23	0.6	-0.10
	V	CUM	-1	1.20	0.23	1	-0.28
	CR-09 & 10						
	VH1	CUM	2	7.50	0.23	3	10.35
	VH2	CUM	2	8.70	0.23	3	12.01
	HW	CUM	1	6.40	0.23	2.85	4.20
	DEDUCTION						
	D1	CUM	-2	1.50	0.23	2.4	-1.66
	V	CUM	-2	1.20	0.23	1	-0.55
	W	CUM	-4	2.00	0.23	1.5	-2.76
	Computer Room G- A10 E10 & A11 E11						
	HW1	CUM	1	11.01	0.23	3	7.59
	HW2	CUM	1	11.74	0.23	3	8.10
	VW	CUM	2	6.40	0.23	2.85	8.39
	DUCT WALL	CUM	1	2.40	0.23	3	1.66
	DEDUCTION						
	D1	CUM	-1	1.50	0.23	2.1	-0.72
	W	CUM	-2	2.00	0.23	1.5	-1.38
	V2	CUM	-1	0.75	0.23	0.6	-0.10
	CR-11						
	HW	CUM	2	7.60	0.23	3	10.48
	VW	CUM	2	6.03	0.23	2.85	7.91
	DEDUCTION						
	D1	CUM	-1	1.50	0.23	2.4	-0.83
	W	CUM	-2	2.00	0.23	1.5	-1.38
	V	CUM	-1	1.20	0.23	1.5	-0.41
	CR-12						

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	HW	CUM	2	7.47	0.23	3	10.31
	VW	CUM	1	6.03	0.23	2.85	3.95
	DEDUCTION						
	D1	CUM	-1	1.50	0.23	2.4	-0.83
	W	CUM	-2	2.00	0.23	1.5	-1.38
	V	CUM	-1	1.20	0.23	1	-0.28
	LABORATORY						
	HW	CUM	2	7.08	0.23	3	9.76
	VW	CUM	1	6.03	0.23	2.85	3.95
	DEDUCTION						
	D1	CUM	-1	1.50	0.23	2.4	-0.83
	W	CUM	-2	2.00	0.23	1.5	-1.38
	V	CUM	-1	1.20	0.23	1.0	-0.28
				TOTAL QTY IN Cum			217.11
				QTY Paid On This Bill			217.11
	TENDER QTY	217.11					

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Engineers

Contractor

B. L. Ramakrishna
Assistant Engineer 26/4

B. L. Ramakrishna
Asst. Executive Engineer 28/4

A.E.E (P) 28/4 R.R. Nagar

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RA BILL-02nd AND PART

Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
60	Construction of partition wall 11.2 cms thick with non modular table moulded burnt bricks of class designation 5.0Newton per Sqmm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2- KSRB 6-7.2 : - do - with bricks of class designation 5.0 Newton per sqm -Specification No. KBS 6.2 Ground floor						
	FF BBM Partition Wall						
	First FLOOR						
	Boys & Girls Toilet						
	HW	Sqm	2.00	3.15		2.10	13.21
	VW	Sqm	4.00	1.50		2.10	12.60
	DEDUCTION						0.00
	D3	Sqm	-4.00	0.75		2.10	-6.30
	STAFF TOILET @ N1P1 TO N1A, N'1A						0.00
	PARTITION WALL						0.00
	HW	Sqm	1.00	2.52		2.10	5.28
	VW	Sqm	2.00	1.50		2.10	6.30
	DEDUCTION						0.00
	D3	Sqm	-2.00	0.75		2.10	-3.15
	Principal Cabin @ Q1						0.00
	PARTITION WALL						0.00
	HW	Sqm	1.00	2.12		2.10	4.44
	VW	Sqm	1.00	1.50		2.10	3.15
	DEDUCTION						0.00
	D3	Sqm	-1.00	0.75		2.10	-1.58
				TOTAL QTY IN Cum			33.96
				QTY Paid On This Bill			33.96
	TENDER QTY	33.96	Sqm		Up to 125%		31.25
					Above 125%		2.71

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Consulting Engineer & Architects

Contractor

Assistant Engineer 26/4

Asst. Executive Engineer 26/4

A.E.E (R) R.R.Naga

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RA BILL-02nd AND PART							
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
	Second Floor						
18	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Footing And Column.						
	RCC FOR Columns 2nd Floor						
	For Column.						
	Columns SF FFL To Third Floor Lintel						
	Column C1 - [230X600] Grid- F1, I1, K1, S1,	Cum	12	0.23	0.60	3.45	5.71
	Column C2 - [230X600] Grid- B1, D1, H1, N1,	Cum	18	0.23	0.60	3.45	8.57
	Column C3 - [230X600] Grid- V1, P1, V2, B2,	Cum	12	0.23	0.60	3.45	5.71
	Column C4- [230X600] Grid- J1, L1, D2, J2,	Cum	11	0.23	0.60	3.45	5.24
	Column C5 - [230X600] Grid- L2, B10, R11	Cum	3	0.23	0.60	3.45	1.43
	Column C6 - [300X300] Grid- F3, F5, F7, F9,	Cum	20	0.13		3.45	8.69
	Column C7 - [450X450] Grid- Q4, Q8, S4,S8	Cum	4	0.45	0.45	3.45	2.79
	Column C8 - [230X750] Grid- R10	Cum	1	0.75	0.23	3.45	0.60
	Column C9 - [230X450] Grid- N1A, N2,	Cum	4	0.45	0.23	3.45	1.13
			85	Column FF TO SF TOTAL QTY IN Cum			40.17
				Total Qty in Cum			40.17
	Carry the Qty Recorded on Page No-1	Cum		**FF Total Qty in Cum**			40.17
	TENDER QTY 734	Cum		**Total QTY Paid On This Bill**			80.35

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Consulting Engineer & Architects

Contractor

Assistant Engineer

Asst. Executive Engineer

A.E.E (P) R.R.Nagar

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RA BILL-02nd AND PART								
Item No	Description	Units	Nos	Measurements in Mtrs			Quantity
				Length	Breadth	Depth	
50	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieing with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No KBS 4.6.3. FOR TMT Bars Fe- 500.						
	Steel SF FFL TO TF FFL Column						
	Columns	MT	1	40.17	200		8034.71
				TOTAL QTY IN KG			8034.71
	TENDER QTY 90.53	MT		TOTAL QTY IN MT			8.03

A.E.E (P)
R.R. Naga

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Bengaluru
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Reg.No
2555343
Consulting Engineer & Architects

Contractor

Assistant Engineer 25/2

Asst. Executive Engineer 25/2

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